Cape Cod Community College Sustainability Plan

Date: April 19, 2005	
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This Sustainability Plan has been reviewed and approved by Cape Cod Community College on April 19, 2005	Jerry Brisson, Vice President of
Signature of Agency Head or other Appropriate Designee	

1. Agency Information, Impact Identification and Sustainability Team

1.1 Agency Description and Scope

Cape Cod Community College is located in Barnstable Massachusetts on approximately 110 acres of glacial soils with a predominant forest cover of oak with several small patches of varied mature evergreen cover. There are two small wetland habitats on campus, a small marshy pool predominated by cattails and a run off collection pond that retains water year round and supports a breeding population of bull frogs, common water snakes, painted turtles and a variety of aquatic insect species. The forested areas on campus are largely undisturbed and species common to the campus include red tail hawks, great horned owls, coopers and sharp shinned hawks, screech owls, red and grey fox, eastern coyote, woodchucks, squirrels and chipmunks, white tailed deer, garter and black racer snakes, varied song birds and spring peepers among others.

There are 12 buildings on Campus, one of which is currently under construction, with a combined total square footage of approximately 400K. Eleven of these buildings were constructed in the 1970's and were designed to be heated by electricity, which has been retrofitted in many locations to now utilize natural gas. Wheelchair access is a significant challenge, as the campus was not originally designed to address accessibility concerns. The inner campus is landscaped to take advantage of natural growth. The parking areas that ring the campus are insufficient to meet the needs of the College at times of peak enrollment.

The College takes great pride in our academic excellence and our commitment to working cooperatively with our Cape Cod neighbors. We have a very active community support function at CCCC, Youth soccer and basketball teams use our facilities as well as significant community use of our tennis court area. Our general facilities are utilized by a wide range of community action and arts programs from across the region.

1.2 Agency Impacts on the Environment and Human Health

Thee College has a long history of seeking to minimize it's negative impacts upon the fragile Cape Cod environment which include it's permeable soils, sole source aquifer, adjacent marine environments, traffic congestion, air quality, seasonal population increases and wastewater disposal challenges. The following is a list of impacts that the college does have upon the Cape Cod ecosystem:

- A. Significant levels light released into the night sky.
- B. Auto emissions related to students and staff traveling to the Campus.
- C. Solid wastes generated by the College
- D. Waste water and sewerage generated on campus.
- E. Salt run off from winter roadway and walkway deicing.
- F. Utility consumption.
- G. Noise emissions impacts from grounds keeping functions
- H. Use of ground water resources.
- I. Potential source of a hazardous materials release.
- J. Impacts on resident and migrating wildlife

1.3 Agency Costs

Natural Gas 2004 \$140,000 Electricity 2004 \$370,000

Solid waste disposal 2004 \$33,000

1.4 Agency Sustainability Team Members

John Lebica Director of Facilities Management

Paul Knell Assistant Director of Facilities

Bruce Calisti Electrician

John Foley HVAC

Mary Jane Curran Environmental Studies

Robert Robida Science Department

Robert Cleghorn Consultant

Peg O'Neil Environmental studies

Stephanie Brady Environmental Studies

Paul Henrikson Facilities Department

The College's Sustainability team is an eclectic group that meets as sub-groups to pool knowledge and resources to work on specific tasks, projects and challenges. During the past calendar year the sub groups most active were:

- A. Toxics reduction and safety
- B. Technology Building Construction oversight
- C. Composting and recycling
- D. Waste water management
- E. Wind turbine Project

2. Long-Term Goals/Vision

2.1 Long-Term Goals

Cape Cod Community College strives to be an active and environmentally responsible member of the Cape Cod community, not only minimizing our negative impact upon our ecosystem but also simultaneously maximizing our positive impact as educators and roll models and team members.

3. Short-term Actions and Priorities

- A. Complete construction of our Leeds Certified Technology Building with a Gold Rating
- B. Enhance existing recycling efforts to increase over all volume of recycled material
- C. Design and install new waste water and sewerage system.
- D. Install 1.5 megawatt wind turbine on campus
- E. Reduce Mercury on Campus
- F. Manage a percentage of the College's open space as meadow

3.1 Priority and Areas Goals and Action Steps

- A. Complete, commission and occupy new Technology Building by October 05
- 1. Work with DCAM and Contractor to complete building in accordance with LEEDS certification requirements.
- B. Establish with waste hauler a way to accurately and constantly measure quantities of recycled material to allow for accurate measurement of subsequent yearly recycling percentage increases.
 - Currently we are unable to get accurate measurement of our paper cardboard and plastic recycled output. We will work with our waste hauler to standardize collection to facilitate accurate measurement and written monthly total reports.
 - 2. We will seek to add wooden pallets to our recycled materials
 - 3. we will improve the compostables collection system to minimise contaminants.

C Install new wastewater and sewerage system by fall 2007

- 1. Work with DECAM and town of Barnstable to design and construct a new waste treatment pathway. Process will include the location of the path of the waste pipe to town treatment facility, Siting of campus pumping stations, and construction of the line and facility hook up.
- D. Have wind turbine on line by fall 2006
 - 1. Negotiate terms of agreement with MTC and DCAM
 - 2. Select site
 - 3. Conduct related hearings
 - 4. Conduct related bird study

- 5. Prepare site for turbine
- 6. Erect turbine and integrate into college power constellation
- 7. Conduct on going College and public education programs related to wind power technology
- E. Replace all mercury containing thermometers and blood pressure equipment
 - 1. Work with health Sciences and general staff to locate and collect mercury-containing devices.
 - 2. Purchace replacement equipment and distribute to staff.

F Manage at least 2 combined acres currently being mowed as lawn as natural meadow environment

- 1. Identify open areas around the campus that will have a combined area to equal 2 acres that are currently mowed which can be managed as open meadow.
- 2. Plant native species as ness say to increase value as wildlife habitat
- 3. Control evasive/ non-native plants

4. Management Systems and Institutionalization

4.1 Integrating Environmental Impacts into Key Decision Points

Cape Cod Community College will continue to purchase materials that contain recycled materials and environmentally safe products.

Our Board of Trustees will continue to consider Sustainability Issues as one of the criteria they use in institutional decision-making.

Our Senior Management team will continue to discuss sustainability issues of importance to the wider college community.

Our purchasing department will strive to identify and contract with venders that offer products containing recycled materials and reduced toxicity products.

Our facilities department will seek to purchase products to reduce the use of toxic materials

Our purchasing department will seek opportunities to purchase fuel-efficient vehicles when possible.

4.2 Education and Training of Staff

Cape Cod Community College offers a wide range of opportunities for staff education related to sustainability and environmental matters including:

Presentations offered by guest speakers

E-mail communication on related topics

Newspaper articles in the College paper related to environmental topics

Opportunities to attend workshop and training opportunities away from the College

4.3 Management Systems

Cape Cod Community College maintains and updates a EMS plan

5. Tracking Progress and Program/Plan Review

5.1 Agency Tracking and Reporting Form

The College will describe it's progress on goals listed in this document and will annually identify new goals that replace accomplished tasks. It will be our practice to carry goals forward that have not been achieved seeking to retool efforts to gain greater completion in the year to come. Where ever possible results will be monitored and reported in terms of measurable criteria.

5.2 Continuous Improvement

- The College will monitor its performance and track its achievement through the ongoing review of the sub groups.
- The performance of all groups will be monitored by the sustainability coordinator
- Problems that prohibit completion of any of the identified goals will be reported directly to the Vice President for Administration.
- Progress on these Sustainability goals will be reported to the President through the College's Admin Council
- Annually the Board of Trustees will be apprised of the accomplishments of the Colleges sustainability efforts and of the goals recommended for the coming year. This presentation will be timed to correspond to the State annual reporting.